

WHAT IS CLAIMED IS:

1. A topically applicable photostable sunscreen/photoprotective composition, comprising at least one dibenzoylmethane UV-sunscreen and an effective
5 photostabilizing amount therefor of at least one amphiphilic block copolymer which comprises at least one nonionic hydrophilic polymer block and at least one hydrophobic polymer block, formulated into a topically applicable, cosmetically acceptable medium therefor.
- 10 2. The photostable sunscreen/photoprotective composition as defined by Claim 1, said at least one amphiphilic block copolymer having a molecular weight ranging from 1,000 to 100,000.
- 15 3. The photostable sunscreen/photoprotective composition as defined by Claim 1, wherein the weight ratio of said at least one nonionic hydrophilic polymer block to said at least one hydrophobic polymer block ranges from 1/100 to 50/1.
- 20 4. The photostable sunscreen/photoprotective composition as defined by Claim 1, wherein the weight concentration ratio between the UV-screening agents therein and said at least one amphiphilic block copolymer ranges from 0.005 to 0.5.
- 25 5. The photostable sunscreen/photoprotective composition as defined by Claim 1, said at least one nonionic hydrophilic polymer block comprising polyethylene oxide or polyvinylpyrrolidone.
6. The photostable sunscreen/photoprotective composition as defined by Claim 1, said at least one hydrophobic polymer block comprising polystyrene,

poly(tert-butylstyrene), poly(methyl methacrylate), poly(ethyl acrylate), poly(butyl acrylate), poly(butyl methacrylate), poly(vinyl acetate), polycaprolactones, polycaprolactams, polydimethylsiloxanes, poly(C₃-C₆ alkylene oxides), poly(aspartic acid), poly(lactic acid), poly(glycolic acid), poly(leucine),
5 polybutadiene, polyethylene, polypropylene or polybutylene.

7. The photostable sunscreen/photoprotective composition as defined by Claim 1, said at least one amphiphilic block copolymer comprising:
polystyrene/polyoxyethylene,
10 polymethyl methacrylate/polyoxyethylene,
polybutyl methacrylate/polyoxyethylene,
polyoxybutylene/polyoxyethylene,
polycaprolactone/polyoxyethylene,
polyethylene/polyoxyethylene, or
15 polyoxyethylene/polyoxybutylene/polyoxyethylene.

8. The photostable sunscreen/photoprotective composition as defined by Claim 1, said at least one dibenzoylmethane UV-sunscreen comprising:
2-methyldibenzoylmethane,
20 4-methyldibenzoylmethane,
4-isopropyldibenzoylmethane,
4-tertbutyldibenzoylmethane,
2,4-dimethyldibenzoylmethane,
2,5-dimethyldibenzoylmethane,
25 4,4-diisopropyldibenzoylmethane,
4,4-dimethoxydibenzoylmethane,
4-tert-butyl-4'-methoxydibenzoylmethane,
2-methyl-5-isopropyl-4'-methoxydibenzoylmethane,
2-methyl-5-tert-butyl-4'-methoxydibenzoylmethane,

2,4-dimethyl-4'-methoxydibenzoylmethane, or
2,6-dimethyl-4-tert-butyl-4'-methoxydibenzoylmethane.

9. The photostable sunscreen/photoprotective composition as defined by
5 Claim 1, said at least one dibenzoylmethane UV-sunscreen comprising
4-tert-butyl-4'-methoxydibenzoylmethane.
10. The photostable sunscreen/photoprotective composition as defined by
Claim 1, further comprising at least one 1,3,5-triazine UV-sunscreen, cinnamic
10 acid UV-sunscreen and/or amino-substituted hydroxybenzophenone UV-sunscreen.
11. The photostable sunscreen/photoprotective composition as defined by
Claim 1, further comprising at least one UV-sunscreen selected from the group
consisting of salicylic derivatives, dibenzylidenecamphor derivatives,
15 benzophenone derivatives, β,β' -diphenylacrylate derivatives, phenylbenzimidazole
derivatives, anthranilic derivatives, imidazoline derivatives,
methylenebis(hydroxyphenylbenzotriazole) derivatives, p-aminobenzoic acid
derivatives, screening hydrocarbon-based polymers and screening silicones.
- 20 12. The photostable sunscreen/photoprotective composition as defined by
Claim 1, further comprising at least one optionally coated metal oxide
nanopigment.
13. The photostable sunscreen/photoprotective composition as defined by
25 Claim 12, said at least one optionally coated metal oxide nanopigment comprising
titanium oxide, iron oxide, zinc oxide, zirconium oxide and/or cerium oxide.

14. The photostable sunscreen/photoprotective composition as defined by Claim 1, further comprising at least one agent for artificially tanning and/or browning the skin.

5 15. The photostable sunscreen/photoprotective composition as defined by Claim 1, further comprising at least one additive or adjuvant selected from the group consisting of fatty substances, organic solvents, thickeners, antioxidants, opacifiers, stabilizers, antifoams, fragrances, preservatives, fillers, sequestering agents, propellants and dyes.

10

16. The photostable sunscreen/photoprotective composition as defined by Claim 1, in anhydrous state.

15

17. The photostable sunscreen/photoprotective composition as defined by Claim 1, in hydrated state.

20

18. The photostable sunscreen/photoprotective composition as defined by Claim 4, wherein the weight concentration ratio between the UV-screening agents therein and said at least one amphiphilic block copolymer ranges from 0.005 to 0.2.

25

19. The photostable sunscreen/photoprotective composition as defined by Claim 1, formulated as a gelled oil, a suspension or dispersion in a fatty substance, a nonionic vesicular dispersion, an emulsion, a cream, a milk, an ointment, a gel, a solid tube or stick, a mousse, a spray, or a lotion.

20. The photostable sunscreen/photoprotective composition as defined by Claim 1, formulated as a makeup for the eyelashes, the eyebrows, or the skin.

21. The photostable sunscreen/photoprotective composition as defined by Claim 1, formulated as a rinse-out composition, to be applied before or after shampooing, before or after dyeing or bleaching, or before, during or after permanent-waving or relaxing the hair, a styling or treating lotion or gel, a
5 blow-drying or hairsetting lotion or gel, or a composition for permanent-waving, relaxing, dyeing or bleaching the hair.
22. A process for UV-photostablizing a sunscreen/photoprotective composition which comprises at least one dibenzoylmethane UV-sunscreen, comprising
10 formulating therewith a thus effective amount of at least one amphiphilic block copolymer which comprises at least one nonionic hydrophilic polymer block and at least one hydrophobic polymer block.
23. The process as defined by Claim 22, said at least one amphiphilic block
15 copolymer having a molecular weight ranging from 1,000 to 100,000.
24. The process as defined by Claim 22, wherein the weight ratio of said at least one nonionic hydrophilic polymer block to said at least one hydrophobic polymer block ranges from 1/100 to 50/1.
20
25. The process as defined by Claim 22, wherein the weight concentration ratio between the UV-screening agents therein and said at least one amphiphilic block copolymer ranges from 0.005 to 0.5.
- 25 26. The process as defined by Claim 22, said at least one nonionic hydrophilic polymer block comprising polyethylene oxide or polyvinylpyrrolidone.
27. The process as defined by Claim 22, said at least one hydrophobic polymer block comprising polystyrene, poly(tert-butylstyrene), poly(methyl methacrylate),

poly(ethyl acrylate), poly(butyl acrylate), poly(butyl methacrylate), poly(vinyl acetate), polycaprolactones, polycaprolactams, polydimethylsiloxanes, poly(C₃-C₆ alkylene oxides), poly(aspartic acid), poly(lactic acid), poly(glycolic acid), poly-leucine, polybutadiene, polyethylene, polypropylene or polybutylene.

5

28. The process as defined by Claim 22, said at least one amphiphilic block copolymer comprising:

polystyrene/polyoxyethylene,

polymethyl methacrylate/polyoxyethylene,

10 polybutyl methacrylate/polyoxyethylene,

polyoxybutylene/polyoxyethylene,

polycaprolactone/polyoxyethylene,

polyethylene/polyoxyethylene, or

polyoxyethylene/polyoxybutylene/polyoxyethylene.

15

29. The process as defined by Claim 22, said at least one dibenzoylmethane UV-sunscreen comprising:

2-methyldibenzoylmethane,

4-methyldibenzoylmethane,

20 4-isopropyldibenzoylmethane,

4-tertbutyldibenzoylmethane,

2,4-dimethyldibenzoylmethane,

2,5-dimethyldibenzoylmethane,

4,4-diisopropyldibenzoylmethane,

25 4,4-dimethoxydibenzoylmethane,

4-tert-butyl-4'-methoxydibenzoylmethane,

2-methyl-5-isopropyl-4'-methoxydibenzoylmethane,

2-methyl-5-tert-butyl-4'-methoxydibenzoylmethane,

2,4-dimethyl-4'-methoxydibenzoylmethane, or

2,6-dimethyl-4-tert-butyl-4'-methoxydibenzoylmethane.

30. The process as defined by Claim 22, said at least one dibenzoylmethane UV-sunscreen comprising 4-tert-butyl-4'-methoxydibenzoylmethane.

5

31. A regime or regimen for photoprotecting human skin against the damaging effects of UV-radiation, comprising topically applying thereon a thus effective amount of the photostable sunscreen/photoprotective composition as defined by Claim 1.

10

32. A regime or regimen for photoprotecting human skin against the damaging effects of UV-radiation, comprising topically applying thereon a thus effective amount of the photostable sunscreen/photoprotective composition as defined by Claim 5.

15

33. A regime or regimen for photoprotecting human skin against the damaging effects of UV-radiation, comprising topically applying thereon a thus effective amount of the photostable sunscreen/photoprotective composition as defined by Claim 6.

20

34. A regime or regimen for photoprotecting human skin against the damaging effects of UV-radiation, comprising topically applying thereon a thus effective amount of the photostable sunscreen/photoprotective composition as defined by Claim 7.

25

35. A regime or regimen for photoprotecting human skin against the damaging effects of UV-radiation, comprising topically applying thereon a thus effective amount of the photostable sunscreen/photoprotective composition as defined by Claim 8.

36. A regime or regimen for photoprotecting human skin against the damaging effects of UV-radiation, comprising topically applying thereon a thus effective amount of the photostable sunscreen/photoprotective composition as defined by Claim 9.